

EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTTTT
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EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTT

[illegible]

```
0001 0 TITLE 'EDT$PRPUSH - new parse node'
0002 0 MODULE EDT$PRPUSH (
0003 0 IDENT = 'V04-000'
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1 *****
0008 1 *
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0026 1 *
0027 1 *
0028 1 *****
0029 1
0030 1
0031 1 ++
0032 1 FACILITY: EDT -- The DEC Standard Editor
0033 1
0034 1 ABSTRACT:
0035 1
0036 1 Create a new parse node.
0037 1
0038 1 ENVIRONMENT: Runs at any access mode - AST reentrant
0039 1
0040 1 AUTHOR: Bob Kushlis, CREATION DATE: December 12, 1978
0041 1
0042 1 MODIFIED BY:
0043 1
0044 1 1-001 - Original. DJS 25-Feb-1981. This module was created by
0045 1 extracting routine PUSH from module PARSER.
0046 1 1-002 - Regularize headers. JBS 12-Mar-1981
0047 1 1-003 - Use new message codes. JBS 04-Aug-1981
0048 1 1-004 - Improve the appearance of the listing. JBS 17-Jun-1983
0049 1 --
0050 1
```


EDT\$PRPUSH - new parse node
Declarations

16-Sep-1984 01:22:33
14-Sep-1984 12:24:14

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DISK\$VMSMASTER:[EDT.SRC]PRPUSH.BLI:1 (2)

```

52      0051 1 %SBTTL 'Declarations'
53      0052 1
54      0053 1 TABLE OF CONTENTS:
55      0054 1
56      0055 1
57      0056 1 REQUIRE 'EDTSRC:TRAROUNAM';
58      0495 1
59      0496 1 FORWARD ROUTINE
60      0497 1     EDT$PA_NEW_NOD;
61      0498 1
62      0499 1
63      0500 1 INCLUDE FILES:
64      0501 1
65      0502 1
66      0503 1 REQUIRE 'EDTSRC:EDTREQ';
67      0638 1
68      0639 1 REQUIRE 'EDTSRC:PARLITS';
69      0923 1
70      0924 1
71      0925 1 MACROS:
72      0926 1
73      0927 1     NONE
74      0928 1
75      0929 1 EQUATED SYMBOLS:
76      0930 1
77      0931 1     NONE
78      0932 1
79      0933 1 OWN STORAGE:
80      0934 1
81      0935 1     NONE
82      0936 1
83      0937 1 EXTERNAL REFERENCES:
84      0938 1
85      0939 1     In the routine

```

EDTS
V04-

```

87 0940 1 XSBTTL 'EDT$$PA_NEW_NOD - new parse node'
88 0941 1
89 0942 1 GLOBAL ROUTINE EDT$$PA_NEW_NOD (
90 0943 1     NT,
91 0944 1     TYP
92 0945 1 ) =
93 0946 1
94 0947 1 ++
95 0948 1 FUNCTIONAL DESCRIPTION:
96 0949 1
97 0950 1     Create a semantic node of the specified type and subtype. If the
98 0951 1     stack overflows, return a 0 otherwise, return the address of the new
99 0952 1     node.
100 0953 1
101 0954 1 FORMAL PARAMETERS:
102 0955 1
103 0956 1     NT                Stored in [NODE_TYPE]
104 0957 1
105 0958 1     TYP              Stored in [COM_NUM]
106 0959 1
107 0960 1 IMPLICIT INPUTS:
108 0961 1
109 0962 1     EDT$$Z_PA_STK
110 0963 1     EDT$$G_PA_SP
111 0964 1
112 0965 1 IMPLICIT OUTPUTS:
113 0966 1
114 0967 1     EDT$$G_PA_ERRNO
115 0968 1     EDT$$Z_PA_STK
116 0969 1     EDT$$G_PA_SP
117 0970 1
118 0971 1 ROUTINE VALUE:
119 0972 1
120 0973 1     0 = parse stack overflow
121 0974 1     non-zero = address of new parse semantic node
122 0975 1
123 0976 1 SIDE EFFECTS:
124 0977 1
125 0978 1     NONE
126 0979 1
127 0980 1 --
128 0981 1 BEGIN
129 0982 1
130 0983 1 EXTERNAL
131 0984 1     EDT$$G_PA_ERRNO,
132 0985 1     EDT$$Z_PA_STK : BLOCKVECTOR [NUM_NODES, NODE_SIZE, BYTE] FIELD (NODE_FIELDS),
133 0986 1     EDT$$G_PA_SP;
134 0987 1
135 0988 1 MESSAGES ((PARSTKOVF));
136 0989 1
137 0990 1 LOCAL
138 0991 1     NODE : REF NODE_BLOCK;
139 0992 1
140 0993 1 EDT$$G_PA_SP = .EDT$$G_PA_SP + 1;
141 0994 1
142 0995 1 IF (.EDT$$G_PA_SP GEQU NUM_NODES)
143 0996 1
```

EDT\$PRPUSH
V04-000

EDT\$PRPUSH - new parse node
EDT\$\$PA_NEW_NOD - new parse node

L 4
16-Sep-1984 01:22:33
14-Sep-1984 12:24:14

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DISK\$VMSMASTER:[EDT.SRC]PRPUSH.BLI;1

Page 4
(3)

```

: 144      0997 2      THEN
: 145      0998      BEGIN
: 146      0999      EDT$$G_PA_ERRNO = EDT$_PARSTKOVF;
: 147      1000      RETURN (.OT);
: 148      1001      END;
: 149      1002
: 150      1003      NODE = EDT$$Z_PA_STK [.EDT$$G_PA_SP, NODE_TYPE];
: 151      1004      CH$FILL (0, NODE_SIZE, .NODE);
: 152      1005      NODE [NODE_TYPE] = .NT;
: 153      1006      NODE [COM_NUM] = .TYP;
: 154      1007      RETURN (.NODE);
: 155      1008 1      END;
```

! of routine EDT\$\$PA_NEW_NOD

.TITLE EDT\$PRPUSH EDT\$PRPUSH - new parse node
.IDENT \V04-000\

.EXTRN EDT\$\$G_PA_ERRNO
.EXTRN EDT\$\$Z_PA_STK, EDT\$\$G_PA_SP
.EXTRN EDT\$_PARSTKOVF

.PSECT _EDT\$CODE, NOWRT, SHR, PIC, 2

.ENTRY EDT\$\$PA_NEW_NOD, Save R2,R3,R4,R5,R6,R7

MOVAB EDT\$\$G_PA_SP, R7

INCL EDT\$\$G_PA_SP

MOVL EDT\$\$G_PA_SP, R0

CMPL R0, #20

BLSSU 1\$

MOVL #EDT\$_PARSTKOVF, EDT\$\$G_PA_ERRNO

BRB 2\$

MULL2 #32, R0

MOVAB EDT\$\$Z_PA_STK[R0], NODE

MOVCS #0, (SP), #0, #32, (NODE)

MOVB NT, (NODE)

MOVB TYP, 1(NODE)

MOVL NODE, R0

RET

CLRL R0

RET

; Routine Size: 65 bytes, Routine Base: _EDT\$CODE + 0000

```

: 156      1009 1
: 157      1010 1 !<BLF/PAGE>
```

EDT\$
V04-

EDT\$PRPUSH
V04-000

EDT\$PRPUSH - new parse node
EDT\$SPA_NEW_NOD - new parse node

M 4
16-Sep-1984 01:22:33
14-Sep-1984 12:24:14

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]PRPUSH.BLI;1 Page 5 (4)

: 159
: 160
: 161
1011 1 END
1012 1
1013 0 ELUDOM

! of module EDT\$PRPUSH

PSECT SUMMARY

Name Bytes Attributes
_EDT\$CODE 65 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	51	13	40	00:00.2
\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1	50	7	00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:PRPUSH/OBJ=OBJ\$:PRPUSH MSRC\$:PRPUSH.BLI/UPDATE=(ENH\$:PRPUSH)

: Size: 65 code + 0 data bytes
: Run Time: 00:13.4
: Elapsed Time: 00:17.0
: Lines/CPU Min: 4539
: Lexemes/CPU-Min: 14477
: Memory Used: 99 pages
: Compilation Complete

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